Safety Data Sheet
acc. to OSHA HCS

Date of issue: 07/31/2026 *Version number 1* *Reviewed on 07/31/2026*

1 Identification

· ***Other means of identification***

· ***Trade name:*** **ChemControl Pellets CCP 842**

· ***Application of the substance / the mixture*** industrial gas phase filtration

· ***Details of the supplier of the safety data sheet***

· ***Manufacturer/Supplier:***
Freudenberg Filtration Technologies GmbH & Co. KG
Höhnerweg 2-4
D - 69465 Weinheim
Phone +49 (0) 6201 7107 264
www.freudenberg-filter.com
info@freudenberg-filter.com

· ***Information department:***
Dept. of Filter Engineering
info@freudenberg-filter.com
Tel. +49 (0) 6201 7107 264

· ***Emergency telephone number:***
Freudenberg Service KG / Plant and fire security
Tel. +49 (0) 6201 80 - 3000

2 Hazard(s) identification

· ***Classification of the substance or mixture***


GHS05 Corrosion

Skin corrosion 1B H314 Causes severe skin burns and eye damage.

Eye damage 1 H318 Causes serious eye damage.

· ***Additional information:***
The full text of the classification and labeling elements mentioned is given in Section 16.

· ***Label elements***

· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).

· ***Hazard pictograms***


GHS05

· ***Signal word*** Danger

· ***Hazard-determining components of labeling:***
Potassium hydroxide

· ***Hazard statements***
H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 1)

· ***Precautionary statements***

P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Additional information:***
Please refer to additional labeling elements in Section 15 of this Safety Data Sheet, if applicable.

· ***Other hazards***

· ***Results of PBT and vPvB assessment***

· ***PBT:*** Not applicable

· ***vPvB:*** Not applicable

· ***Classification according to (d)(1)(ii) of § 1910.1200***
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· ***Hazards not otherwise classified***
There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***

· ***Description:***
Mixture: consisting of the following components.
Mixture of the substances listed below including additives not requiring identification.

· ***Dangerous components:***		
CAS: 7440-44-0 RTECS: FF 5250100	active charcoal - high density	25 - 50% *
CAS: 1344-28-1 RTECS: BD 1200000	Aluminum oxide	10 - 25% *
CAS: 7732-18-5 RTECS: ZC 0110000	Water	10- 25% *
CAS: 144-55-8 RTECS: VZ0950000	sodium hydrogencarbonate	2.5 - 10% *
CAS: 1309-48-4 RTECS: OM 3850000	magnesium oxide	2.5 - 10% *
CAS: 584-08-7 RTECS: TS 7750000	potassium carbonate	≥ 2.5 - < 10% *
CAS: 497-19-8 RTECS: VZ4050000	Sodium carbonate	≥ 2.5 - < 10% *
CAS: 1310-58-3 RTECS: TT 2102000	Potassium hydroxide	< 2.5%
CAS: 7772-98-7	sodium thiosulphate	< 2.5%
CAS: 143-74-8	phenol red	≤ 0.1%

(Contd. on page 3)

(Contd. of page 2)

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· ***Description of first aid measures***
· ***General information:***
Seek medical treatment.
Remove contaminated clothing immediately.
· ***After inhalation:***
Inhalation is not considered a potential way of exposure.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Consult a doctor.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. Remove contact lenses if necessary and possible. Continue rinsing. Call a doctor immediately.
· ***After swallowing:***
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Rinse out mouth and then drink plenty of water.
· ***Information for doctor:*** Point out to ingredients (see section 3).
· ***Most important symptoms and effects, both acute and delayed*** No further relevant information available.
· ***Danger*** Risk of eye damage.
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Fire-fighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents:*** Water with full jet
· ***Special hazards arising from the substance or mixture***
During incomplete combustion carbon monoxide can be formed.
Inhalation of combustion gases may cause serious health hazards.
· ***Advice for firefighters***
· ***Protective equipment:***
Wear fully protective suit.
Wear self-contained respiratory protective device.
· ***Additional information*** Remove goods in stock from incendiary zone, if possible.

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Avoid contact to eyes, skin and clothes.
Wear protective equipment. Keep unprotected persons away.
· ***For non-emergency personnel*** Avoid contact with the product.
· ***For emergency responders*** Put on suitable personal protective equipment.
· ***Environmental precautions:*** Do not allow product to reach sewage system or any water course.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 3)

· ***Methods and material for containment and cleaning up:***
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
CAS: 7440-44-0	active charcoal - high density	6.0 mg/m3
CAS: 1344-28-1	Aluminum oxide	3.6 mg/m3
CAS: 144-55-8	sodium hydrogencarbonate	13 mg/m3
CAS: 1309-48-4	magnesium oxide	2.4 mg/m3
CAS: 584-08-7	potassium carbonate	0.99 mg/m3
CAS: 497-19-8	Sodium carbonate	7.6 mg/m3
CAS: 1310-58-3	Potassium hydroxide	0.18 mg/m3
CAS: 7772-98-7	sodium thiosulphate	5.8 mg/m3

· ***PAC-2:***		
CAS: 7440-44-0	active charcoal - high density	330 mg/m3
CAS: 1344-28-1	Aluminum oxide	41 mg/m3
CAS: 144-55-8	sodium hydrogencarbonate	140 mg/m3
CAS: 1309-48-4	magnesium oxide	130 mg/m3
CAS: 584-08-7	potassium carbonate	11 mg/m3
CAS: 497-19-8	Sodium carbonate	83 mg/m3
CAS: 1310-58-3	Potassium hydroxide	2.0 mg/m3
CAS: 7772-98-7	sodium thiosulphate	64 mg/m3

· ***PAC-3:***		
CAS: 7440-44-0	active charcoal - high density	2000 mg/m3
CAS: 1344-28-1	Aluminum oxide	240 mg/m3
CAS: 144-55-8	sodium hydrogencarbonate	840 mg/m3
CAS: 1309-48-4	magnesium oxide	750 mg/m3
CAS: 584-08-7	potassium carbonate	66 mg/m3
CAS: 497-19-8	Sodium carbonate	500 mg/m3
CAS: 1310-58-3	Potassium hydroxide	54 mg/m3
CAS: 7772-98-7	sodium thiosulphate	380 mg/m3

· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Precautions for safe handling***
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
· ***Information about protection against explosions and fires:*** Ensure good room ventilation.

· ***Handling:***
Do not eat, drink, smoke or sniff while working.
Avoid contact with the eyes and skin.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** No special requirements.
· ***Information about storage in one common storage facility:*** Not required
· ***Further information about storage conditions:*** Keep receptacle tightly sealed.
· ***Specific end use(s)*** No further relevant information available.

8 Exposure controls/personal protection

· ***Control parameters***
· ***Components with limit values that require monitoring at the workplace:***
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
TLV: Threshold Limit Value
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 1344-28-1 Aluminum oxide	
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction, A4
CAS: 1309-48-4 magnesium oxide	
PEL	Long-term value: 15* mg/m³ fume; *total particulate
TLV	Long-term value: 10* mg/m³ *as inhalable fraction, A4
CAS: 1310-58-3 Potassium hydroxide	
REL	Ceiling limit value: 2 mg/m³
TLV	Ceiling limit value: 2 mg/m³

· ***Additional information:*** The lists that were valid during the creation were used as basis.

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
filter A/P.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 5)

· **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labeling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Nitrile rubber, NBR
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Solid
· **Color:**	A mixture of grey and solid violet beads and a black cylinder
· **Odor:**	Odorless
· **Odor threshold:**	Not determined
· **Melting point/Melting range:**	Undetermined
· **Boiling point/Boiling range:**	Undetermined
· **Flammability:**	Not determined
· **Explosion limits:**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	Not applicable
· **Auto igniting:**	Product is not selfigniting.
· **Decomposition temperature:**	Not determined
· **SADT**	
· **pH-value at 20 °C (68 °F):**	10 - 12
· **Viscosity:**	
· **Kinematic:**	Not applicable
· **Dynamic:**	Not applicable
· **Solubility in / Miscibility with**	
· **Water:**	Partly soluble.
· **Segregation coefficient (n-octanol/water):**	Not determined
· **Vapor pressure:**	Not applicable
· **Density at 20 °C (68 °F):**	0.62 g/cm³ (5.174 lbs/gal)
· **Relative density**	Not determined
· **Vapor density**	Not applicable
· **Particle characteristics**	No further details.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 07/31/2026 *Version number 1* *Reviewed on 07/31/2026*

Trade name: ChemControl Pellets CCP 842

(Contd. of page 6)

· **Other information**
· **Appearance:**
· **Form:** A mixture of grey and solid violet beads and a black cylinder
· **Important information on protection of health and environment, and on safety.**
· **Ignition temperature:** Product is not selfigniting.
· **Danger of explosion:** Product does not present an explosion hazard.
· **Change in condition**
· **Evaporation rate** Not applicable.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	16,650 mg/kg (Rat)

CAS: 7440-44-0 active charcoal - high density		
Oral	LD50	> 2,000 mg/kg (Rat)
Inhalative	LC50	> 8.5 mg/l/1h (Rat)
CAS: 1344-28-1 Aluminum oxide		
Oral	LD50	> 15,900 mg/kg (Rat) (OECD 401)
Inhalative	LC0	> 2.3 mg/l/4h (Rat) (OECD 403)
CAS: 1309-48-4 magnesium oxide		
Oral	LD50	3,870 mg/kg (Rat)
CAS: 584-08-7 potassium carbonate		
Oral	LDL0	> 2,000 mg/kg (Rat) (OECD 401)
Dermal	LD0	> 2,000 mg/kg (Rabbit)
Inhalative	LC0	> 4.96 mg/l/4h (Rat)
CAS: 497-19-8 Sodium carbonate		
Oral	LD50	2,800 mg/kg (Rat)
Dermal	LD0	> 2,000 mg/kg (Rabbit) (EPA 16 CFR 1500.40)
Inhalative	LC50	2.3 mg/l/2h (Rat)

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 7)

CAS: 1310-58-3 Potassium hydroxide		
Oral	LD50	333 mg/kg (Rat) (OECD 425)

· ***Primary irritant effect:***
· ***on the skin:***
Causes severe skin burns and eye damage.
· ***on the eye:*** Causes serious eye damage.
· ***Sensitization:*** Based on available data, the classification criteria are not met.
· ***Germ cell mutagenicity*** Based on available data, the classification criteria are not met.
· ***Carcinogenicity*** Based on available data, the classification criteria are not met.
· ***Reproductive toxicity*** Based on available data, the classification criteria are not met.
· ***Specific target organ toxicity - single exposure***
Based on available data, the classification criteria are not met.
· ***Specific target organ toxicity - repeated exposure***
Based on available data, the classification criteria are not met.
· ***Aspiration hazard*** Based on available data, the classification criteria are not met.
· ***Additional toxicological information:***

· ***Carcinogenic categories***

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

· ***Alternative sources for toxicological information***
No non-standard sources for toxicological information where used.
· ***Interactive effects*** No interactive effects between components are known.

12 Ecological information

· ***Toxicity***

· Aquatic toxicity:	
CAS: 584-08-7 potassium carbonate	
EC50 (static)	200 mg/l/48h (Daphnia pulex)
LC50 (dynamic)	68 mg/l/96h (Oncorhynchus mykiss)
CAS: 497-19-8 Sodium carbonate	
EC50	200 mg/l/48h (Ceriodaphnia dubia)
LC50 (static)	300 mg/l/96h (Lepomis macrochirus)
NOEC (static)	560 mg/l/96h (Gambusia affinis)
CAS: 1310-58-3 Potassium hydroxide	
NOEC	28 mg/l/24h (Lepomis macrochirus)

· ***Persistence and degradability*** No further relevant information available.
· ***Other information:*** There are no data available about the preparation.
· ***Bioaccumulative potential*** No further relevant information available.
· ***Mobility in soil*** No further relevant information available.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable
· ***vPvB:*** Not applicable

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 8)

· **Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be recycled.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number** · **DOT, ADR/RID, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT, ADR/RID, IMDG, IATA**	Void
· **Transport hazard class(es)** · **DOT, ADR/RID, ADN, IMDG, IATA** · **Class**	Void
· **Packing group** · **DOT, ADR/RID, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable
· **Special precautions for user**	Not applicable
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**	
CAS: 1344-28-1	Aluminum oxide

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 07/31/2026 *Version number 1* *Reviewed on 07/31/2026*

Trade name: ChemControl Pellets CCP 842

(Contd. of page 9)

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

CAS: 1344-28-1	Aluminum oxide	A4
CAS: 1309-48-4	magnesium oxide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**
All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

CAS: 1344-28-1	Aluminum oxide
CAS: 1309-48-4	magnesium oxide
CAS: 584-08-7	potassium carbonate
CAS: 497-19-8	Sodium carbonate
CAS: 1310-58-3	Potassium hydroxide

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

DEKRA This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Trade name: ChemControl Pellets CCP 842

(Contd. of page 10)

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· ***Date of preparation*** 07/31/2026

· ***Abbreviations and acronyms:***

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin corrosion 1B: Skin corrosion/irritation – Category 1B
Eye damage 1: Serious eye damage/eye irritation – Category 1

· ***Sources*** This safety data sheet was created based on the information provided by the supplier.